

SINGLE AND MULTIPLE WAVELENGTH REFLECTION
AND TRANSMISSION FILTER ARRANGEMENTS

Abstract of the Invention

A basic reflector arrangement has first and second power
5 splitters. The first power splitter has first, second, third,
and fourth ports where the first port is coupled to a remote
signal source for receiving signals therefrom and providing
feedback signals thereto. Signals received at each of the first
and fourth ports are combined and split into first and second
10 portions for transmission via the second and third ports,
respectively, and signals received at the second and third ports
are combined and split into first and second portions for
transmission via the first and fourth ports, respectively. The
second power splitter has first, second, third, and fourth ports,
15 where the second port is coupled to provide an output signal from
the reflector arrangement, and the first, third, and fourth ports
are coupled to the second, third, and fourth ports, respectively,
of the at least one first power splitter. Various components
such as transmission filters, filter/multiplexers, and delay
20 lines can be added in paths coupling the first and second power
splitters for processing the reflector output and feedback
signals.